

Comparisons of Job Characteristics

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation: Industrial Engineers (17-2112)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation: Industrial Engineers (17-2112)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Engineering and Technology	5.7	18.0	8.3	<<	Extensive education and/or training may be required
Production and Processing	6.0	17.4	17.4	0	Current knowledge level may be sufficient
Mathematics	9.2	15.6	10.6	<<	Extensive education and/or training may be required
Mechanical	6.8	15.6	10.9	<<	Extensive education and/or training may be required
Design	5.2	14.8	6.5	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation: Industrial Engineers (17-2112)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reading Comprehension	10.7	14.8	11.5	<<	Extensive development of skills in this area may be required
Complex Problem Solving	9.1	12.8	10.7	<	A higher skill level may be required
Writing	9.2	12.8	10.3	<	A higher skill level may be required
Monitoring	9.9	12.2	10.6	<	A higher skill level may be required
Mathematics	6.2	10.3	5.8	<<	Extensive development of skills in this area may be required
Systems Analysis	6.5	9.9	8.5	<	A higher skill level may be required
Systems Evaluation	6.4	9.5	8.3	<	A higher skill level may be required

Management of Material Resources	3.7	7.2	5.8	<	A higher skill level may be required
Management of Financial Resources	3.3	6.0	5.6	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 94			
Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Industrial Engineers (17-2112)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	14.6	12.2	<	Some improvement in abilities may be required
Written Expression	9.8	14.1	11.0	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	13.6	12.1	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	12.8	10.7	<	Some improvement in abilities may be required
Information Ordering	9.9	11.8	9.7	<	Some improvement in abilities may be required
Selective Attention	8.7	10.7	8.9	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	10.5	7.1	<<	Extensive improvement in abilities may be required
Visualization	7.5	10.3	8.1	<	Some improvement in abilities may be required
Time Sharing	6.6	8.5	7.1	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 77
Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Industrial Engineers (17-2112)		
Work Activities	Exclusivity of Activity	
Assign work to staff or employees	30	
Communicate technical information	4	
Coordinate production materials, activities or processes	81	
Determine factors affecting production processes	84	
Estimate materials or labor requirements	61	
Read blueprints	10	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 75

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)
Associated Occupation: Industrial Engineers (17-2112)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer printers	2
Computers	1
Content authoring and editing software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.